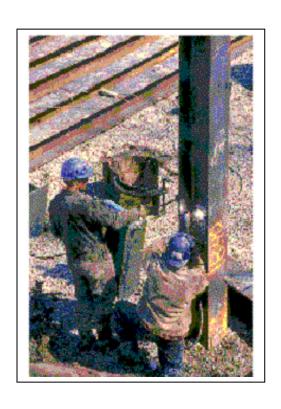
SPECIAL INSPECTIONS MANUAL



CITY PLANNING & DEVELOPMENT DEVELOPMENT SERVICES

City of Kansas City, Missouri 2012 International Building Code October 1, 2012



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CHAPTER 1 INTRODUCTION

Special inspections (SI) are a requirement of the Kansas City, Missouri, Building and Rehabilitation Code (KCBRC). Special inspections are defined as the periodic or continuous observation of work, including the performance of tests in order to verify substantial conformance with the reviewed plans and specifications. Project plans and specifications shall be developed and sealed by the architect and/or structural Engineer of Record (EOR) and reviewed by City Planning & Development-Development Services (CPD-DS). Special inspections will be required as specified in Section 1705 of the 20012 International Building Code (IBC), the Special Inspection Manual, and the Building Official.

The purpose of this manual is to outline the CPD-DS Special Inspections Program. This manual clarifies what work requires special inspections and the procedure for inspecting and reporting that work. It defines the duties and responsibilities of the project owner, Registered Design Professional of record, special inspector and general contractor. The SI Manual can be found on-line under 'Publications' on the CPD-DS homepage at www.kcmo.org/ckcmo/depts/cityPlanningandDevelopment/SpecialInspectionProgramManual/index.htm

The Special Inspections Manual in no way relieves any participant from the proper performance of work according to contracts, plans and specifications and applicable building codes.

Any questions or correspondence regarding special inspections should be directed to:

Heath Perkins, P.E., M.C.P. Division Manager of Inspections Special Inspector on Duty 414 E. 12th Street, 14th Floor

Kansas City, Missouri 64106 Telephone: 816-513-1549

Fax: 816-513-1535

Email: CPD - Special Inspections.in box@docs.e-builder.net

If Mr. Perkins is not available please contact any of the following Special Inspection engineers at the same location:

Heath Perkins (816) 513-1514 Email: <u>Heath.Perkins@kcmo.org</u>

Steve Donner (816) 513-1532 Email: <u>steve.donner@kcmo.org</u>

Basil Alani (816) 513-1517 Email: basil.alani@kcmo.org

If the Special Inspection staff is not available, the following individual may be contacted at (816) 513-1500:

Greg Franzen, P.E., M.C.P., Assistant Director – Development Services / Building Official

CHAPTER 2 CLASSIFICATION OF WORK REQUIRING SPECIAL INSPECTIONS

The requirement for special inspections outlined in this manual shall apply to the following types of work.

Exceptions:

1. Work of a minor nature as approved by the building official.

square foot or where the structure bears on fill material.

2. Group R3 occupancies, or Group U occupancies accessory to a residential occupancy, unless the work is of an unusual or complex nature.

1. EXCAVATION AND FILL

Excavation. All excavation with slopes exceeding those permitted in IBC Section 3304.1.1.

Fill. All fill with slopes exceeding those permitted in IBC Section 3304.1.1 and Section J107.6. All fill greater than 1 foot in depth within the footprint of a structure. Benching of existing slopes exceeding 5:1 to receive fill in excess of 5 feet in depth in accordance with IBC Section J107.3

2. SOILS AND FOUNDATION

Deep foundations. All cast in place and driven deep foundations 1705.7 thru 1705.9. **Shallow footings and foundations.** All shallow footings and foundations except: (a) Light frame buildings or structures of three stories or less in height involving only continuous or spread footings that meet the requirements of IBC Section 1705.3; (b) Concrete foundation walls constructed in accordance with IBC Table 1807.1.6 (1-5). **Soils Verification.** In addition to the foundations specified above, verification of soil conditions for structures with design soil bearing values in excess of 2000 pounds per

3. EARTH RETAINING STRUCTURE

Retaining structure for deep excavation. Any slope retention system (permanent or temporary) for excavations over 12 feet deep.

Retaining walls. Any retaining wall, which is: (a) over 6 feet in height measured from grade on the low side of the wall; or, (b) supporting surcharge or impounding flammable liquids.

4. DETENTION BASIN

All detention basins, except where constructed and inspected under a permit issued by the Land Development Division (LDD), City Planning & Development Department. (Typically a LDD permit is required for detention basins serving, or located on, more than one parcel.)

5. CONCRETE CONSTRUCTION

All reinforced concrete, including prestressed concrete and post-tension slabs except for a slab-on-grade with effective prestress of less than 150 psi. IBC Section 1705.3, Chapter 19, and ACI 318-11 1.3.

6. STEEL CONSTRUCTION

All structural steel, including open web joists, bracing and stiffening members, and connections of high strength bolts or welds (structural, metal deck, shear stud, and metal stud), or any other Structural Steel connections. IBC Section 1705.2, Chapter 22, and AISC360-10 16.1 N.

7. MASONRY CONSTRUCTION

All masonry construction. IBC Section 1705.4, 1704.5, and ACI 530 S1.6

8. SPRAYED FIRE-RESISTANT MATERIAL; MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS

All spray-applied fire resistant material, and other fire-resistant mastic, intumescent paint, or other similar material, for the protection of steel, wood, or other building materials IBC Section 1705.13 and 1705.14

9. EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)

All EIFS applications except for applications over drainable systems or over masonry walls or concrete walls. IBC Section 1705.15

10. FIRE-RESISTANT PENETRATIONS AND JOINTS

Through-penetration firestop systems, membrane penetration firestop systems, fire-resistant joint systems, and perimeter fire barrier systems in high-rise buildings or in buildings assigned to Risk Category III or IV in accordance with section 1604.5. IBC Section 1705.16.

11. SMOKE CONTROL

All smoke control systems subject to the requirements of IBC Sections 909. IBC Section 1705.17

12. SEISMIC RESISTANCE AND STRUCTURAL OBSERVATIONS

For Seismic Design Category of 'C' or higher, special inspections shall be provided, in addition to those specified herein, for portions of the seismic resistance systems in accordance with the requirements of IBC Section 1704 and additional requirements of Section 1705.11.

13. INSPECTION OF FABRICATORS

All fabrication of structural load-bearing members and assemblies, including wood trusses, metal buildings, precast concrete, bar joists, and structural steel, shall have special inspections during fabrication except where the work is done on the premises of a certified plant which is reviewed by the building official to perform such work without special inspection. IBC Section 1705.2.

14. WOOD CONSTRUCTION

The fabrication process of prefabricated wood structural elements and assemblies shall be in accordance with Section 1705.5. Special inspections of site-built high-load diaphragms designed in accordance with Table 2306.2 shall be in accordance with Section 1705.5.1 Metal-plate-connected wood trusses spanning 60 feet or greater shall have special inspections for temporary and permanent bracing.

15. POST-INSTALLED ANCHORS

Special Inspection, periodic or continuous, of post-installed anchors shall be provided as required by the ICC-ES evaluation report or other product listing, and/or as specified by the Design Professional of Record. This item includes expansion, adhesive, and screw anchors.

16. SPECIAL CASES

Special cases or construction that, in the opinion of the Building Official, involves unusual hazards or conditions. IBC Section 1705.1.1.

CHAPTER 3 SUBMITTAL OF REQUIRED DOCUMENTS

Project Submittal

At the time of submittal of application for a permit, the Registered Design Professional of Record shall complete and submit the **Required Special Inspections Form** or the required special inspections may be noted on the **Checklist for Building Permit Plans Submittal - Information Bulletin No. 110** (available at the following link): http://webfusion.kcmo.org/coldfusionapps/IBS/Files/IB110.doc

All special inspections required by this Manual or the IBC, or as otherwise recommended by the designer of record, shall be identified on this form.

Special Inspections Agency

When special inspections are required, the project owner shall retain the services of a qualified special inspections agency to inspect and test the applicable work. Under no circumstances shall these services be provided by an agency retained or engaged by the general contractor or any of their subcontractors. No individual or agency under the direct employment of or affiliated with the contractor(s) is allowed to serve as the special inspector. The construction permit applicant is not allowed to serve as the special inspector. A qualified special inspection agency is one that has been approved by the CPD-DS as outlined in Chapter 4 of this manual.

Prior to the preconstruction meeting, each approved agency shall submit a letter to the CPD-DS Special Inspections Branch that:

- 1. States the project name, address and CPD-DS control number.
- 2. Identifies the work for which they have formally been retained, by the project owner, to inspect and/or test.
- 3. Is signed and sealed by the professional engineer or architect registered in the State of Missouri who is responsible for overseeing and reporting the work, hereinafter referred to as the special inspector of record.

If the approved SI agency intends to subcontract any SI activity to another SI agency, that intent shall be identified in the letter and both agencies shall fill out Subcontracted Special Inspection Agency request for approval formin Appendix B for subcontracting. The subcontracted agency and field inspectors shall be approved by the SI branch prior to the preconstruction meeting. The Special Inspector of Record remains responsible for compliance of all SI activities.

Approved Fabricators

When work is being performed on the premises of a facility/plant that is approved by CPD-DS, shop inspections are not required. The approved fabricator shall submit the following items to the CPD-DS Special Inspections Branch.

- 1. A copy of their current certification.
- 2. A letter stating the name, address, CPD-DS control number of the project, and fabricator's file number. It shall state that they are the fabricator for the project. This shall be received prior to installation of the product at the job site.
- 3. Upon completion of the fabrication, a Certificate of Compliance shall be submitted stating that the fabrication work was performed in accordance with the City reviewed plans, EOR-reviewed shop drawings and specifications.

The approved fabricator will receive the Certificate of Compliance form after the above items #1 and 2 are submitted. No Certificate of Occupancy will be issued until this form has been completed and returned to the CPD-DS. The organizations that have been approved by the CPD-DS to certify fabricators are listed in Chapter 9 and Chapter 11 of this manual.

Supplemental Plan Submission

When a project's base building plans do not provide the special inspector with the details and/or information necessary to perform a proper inspection of the work, supplemental documents shall be submitted. The contractor shall provide one (1) set of the project EOR-reviewed shop drawings and/or erection plans to the SI agency, and an additional set of EOR-reviewed shop drawings at the job site for the special inspector's use. All shop drawings shall bear the seal of the Missouri-registered design professional responsible for that scope of work. The shop drawings shall be marked as reviewed and accepted by the project Registered Design Professional of Record.

Supplemental drawings shall not contradict the City-stamped plans, or expand the scope of work beyond that included in the City-stamped plans. When the scope or content of the base building plans are revised, those changes shall be submitted for review.

CHAPTER 4 APPROVAL OF SPECIAL INSPECTIONS AGENCIES

Qualifications

Any inspection/testing agencies retained to provide special inspections shall be approved by the CPD-DS Special Inspections Branch. As a minimum, an acceptable special inspection agency shall have the following qualifications:

- 1. Be under the direct, full-time supervision of a professional engineer or architect registered in the State of Missouri.
- 2. All laboratory facilities must meet the requirements of ASTM specification E-329 and/or ASTM specification D-3740, as applicable.
- 3. Except for individuals who are professional engineers or architects registered in the State of Missouri, all testing technicians, inspectors and engineers performing special inspections shall meet the qualifications outlined in Chapter 5 and be approved by the CPD-DS.

Approval Review

Each agency seeking approval shall submit the following information to the CPD-DS Special Inspections Branch.

- 1. Description of the agency, including complete legal name, address and brief history.
- 2. The names and positions of the principal owners, officers and directors.
- 3. Functional description of the agency's organizational structure, including all major divisions, departments, sections and their operational activities. Organizational charts may portray this.
- 4. List of the proposed special inspection items the agency may wish to provide and the names of the personnel who are qualified to perform the inspection of those items. Each special inspector identified shall be approved by the CPD-DS prior to being assigned to any project.

After the information is submitted, it will be reviewed by the CPD-DS Special Inspections Branch. Once approved, the agency will be placed on the CPD-DS Approved Special Inspections Agency List.

Supervision of Special Inspection Agencies

If it is determined that an agency is negligent in the performance of the duties required in this manual, then that agency is subject to removal from the approved list in accordance with the following procedures.

First Nonconforming Act: The special inspections agency shall receive a CPD-DS Notice of Violation for the first nonconforming act. This notice shall be cleared or resolved within three (3) working days.

Second Nonconforming Act: A second CPD-DS Notice of Violation within a six- (6) month period will require that the special inspections agency attend a disciplinary meeting with CPD-DS to discuss the areas of nonconformance. This issue of this notice shall be cleared or resolved within three (3) working days.

Third Nonconforming Act: A third CPD-DS Notice of Violation within a six- (6) month period may result in a suspension of the special inspections agency for a period of six (6) months.

Suspension: During the suspension period, the special inspections agency will be removed from the CPD-DS approved list and not be allowed to act as the special inspector on any new projects.

Reinstatement: At the end of a suspension, the special inspections agency can apply for reinstatement by making a written request to the CPD-DS Special Inspections Branch.

Probation: Upon reinstatement, the special inspection agency will be placed on probation for a period of one (1) year. If the special inspection agency receives a Notice of Violation during that time, it will result in a suspension for a period of one (1) year.

Examples of Nonconforming Acts: The following are examples of nonconforming acts that would cause a Notice of Violation to be issued:

- 1. Failure to assign only trained, experienced CPD-DS approved special inspectors to projects.
- 2. Failure to complete an accurate Special Inspector's Daily Report after each inspection is made. This includes submitting a final report once all items and discrepancies have been resolved.
- 3. Failure to submit timely and acceptable Special Inspections Reports to the CPD-DS.
- 4. Failure to perform the necessary special inspections for conformance with the CPD-DS reviewed plans and specifications and EOR reviewed shop drawings.
- 5. Become engaged in a conflict of interest.

CHAPTER 5 QUALIFICATION OF SPECIAL INSPECTORS

Any individual employed by an approved Special Inspections Agency to perform the inspection and/or testing of work requiring special inspections shall be approved by CPD-DS. The special inspections agency shall submit a request for approval to CPD-DS Special Inspections Branch for all qualified personnel. The professional engineer or architect responsible for supervising the special inspector's work shall make submittals on the appropriate CPD-DS form. This form is located in Appendix B of this manual. Each form shall be accompanied by a resume showing dates of the inspector's experience and a copy of all required certifications.

Special inspectors shall meet the following minimum criteria of certification and/or documented experience. Work experience shall be related to the field for which the inspector is being qualified and may be obtained by working either for an inspection/testing agency or engineering firm as a technician, inspector or engineer. The scope of work performed by State-licensed individuals shall be in accordance with all requirements of the State license.

Excavation and Filling -- IBC Sections 1705.6, 1804 and 3304; Table 1705.6; Appendix J

- Current NICET Level II certification in geotechnical engineering technology/construction, or
- Current ICC Soils Special Inspector with one year related experience, or
- Registered Geologist, or
- Engineer Intern with one year related experience, or
- Geologist-in-Training with one year related experience, or
- Registered professional engineer or architect.

Verification of Soils -- IBC Sections 1804 and 1805

- Current NICET Level II certification in geotechnical engineering technology/construction, or
- Current ICC Soils Special Inspector with one year related experience, or
- Registered Geologist, or
- Engineer Intern with one year related experience, or
- Geologist-in-training with one year related experience, or
- Registered professional engineer or architect.

Driven, Cast, and Helical Deep Foundations -- IBC Sections 1705.7, 1705.8, 1705.9, 1808, 1809, 1810, 1811 and 1812; Tables 1705.8 and 1705.9

- Current NICET Level II certification in geotechnical engineering technology/construction, or
- Current ICC Soils Special Inspector with one year related experience, or
- Registered Geologist, or
- Engineer Intern with one year related experience, or
- Geologist-in-Training with one year related experience, or
- Registered professional engineer or architect.

Earth Retaining Structures -- IBC Section IBC Sections 1610 and 1705.1.1

- Current NICET Level II certification in geotechnical engineering technology/construction, or
- Current ICC Soils Special Inspector with one year related experience
- Registered Geologist, or
- Engineer Intern with one year related experience, or
- Geologist-in-training with one year related experience, or

• Registered professional engineer or architect.

Earth Detention Basin -- IBC 1705.1.1

- Professional Land Surveyor, or
- Professional engineer.

Reinforced Concrete -- IBC Sections 1705.3, and 1807; Shotcrete -- IBC 1910

- Current ACI Grade 1 is required for Concrete Testing.
- Current ICC Reinforced Concrete Certificate with 1 year related experience, or
- ACI Concrete Construction Special Inspector Certificate, or
- ACI Concrete Construction Special Inspector in Training with 1 year related experience, or
- Engineer Intern with one year related experience, or
- Registered professional engineer or architect.

Precast Concrete Erection -- IBC Table 1705.3, Item 10

- Certification as required for welding, or
- Engineer Intern with one year related experience, or
- Registered professional engineer or architect.

Prestressed Concrete -- IBC Table 1705.3 Item 9

- ICC Prestressed Concrete Certification with one year related experience, or
- Engineer Intern with one year related experience, or
- Registered professional engineer or architect.

Post-Tension Slab -- IBC Section 1805.8.2; Table 1705.3 Items 1 and 11

- Current Post-Tensioning Institute (PTI) Level II, or
- Engineer Intern with one year related experience, or
- Registered professional engineer or architect.

Masonry -- IBC Section 1705.4 ACI 530-11 S1.6; Tables ACI 530-11 3,4,5

- Current ICC Structural Masonry certificate with one year related experience, or
- Engineer Intern with one year related experience, or
- Registered professional engineer or architect.

Welding -- IBC Sections 1705.2, Chapter 22, AISC 360-10 16N, A; Tables 1705.2.2

- Current AWS Certified Welding Inspector, or
- Current Canadian Welding Bureau Certified Welding Inspector, or
- Current ICC Structural Steel and Welding Certificate with one year of related experience, or
- Current NDT Level II or III (provided they have previously been certified for NDT Level II), or
- Registered professional engineer or architect.

High Strength Bolting -- IBC Section 1705.2.1, AISC 360-10 16N

- Current ICC Structural Steel and Bolting certificate with 1 year related experience, or
- Engineer Intern with one year related experience, or
- Registered professional engineer or architect.

Steel Frame Inspection -- IBC Table 1705.2.1 and AICS 360-10 16N

- Current ICC Structural Steel and Bolting Certificate with one year of related experience, or
- Engineer Intern with one year related experience, or
- Registered professional engineer or architect.

Inspection of Fabricators -- IBC 1704.2.5

- Precast: See Prestressed Concrete requirements.
- Bar Joist: See Welding requirements.
- Metal Building: See Welding requirements.
- Structural Steel: See Welding requirements.

Sprayed Fire-Resistant Materials or Mastic and Intumescent Fire Resistive Coatings -- IBC Section 1705.13 and 1705.14

- Current ICC Spray-Applied Fire Proofing Certificate, or
- Engineer Intern with one year related experience, or
- Registered professional engineer or architect.

Exterior Insulation and Finish System (EIFS) -- IBC Section 1705.15

- Engineer in training with one year related experience, or
- Registered professional engineer or architect.

Wood Construction -- IBC Section 1705.5, 1705.10, and 1605.11.2

- Engineer Intern with one year related experience. or
- Registered professional engineer or architect.

Smoke Control -- IBC Sections 909, 1705.17

- Engineer of record for the smoke control registered in the State of Missouri, utilizing certified air balancers, or
- Registered Design Professional in the State of Missouri with expertise in fire protection engineering and mechanical engineering, utilizing certified air balancers.

Seismic Resistance -- IBC Sections 1704.3 – 1704.5.2, 1705.11

• Registered Engineer in the State of Missouri with expertise with the materials, systems, components and work required to have SI.

Post-Installed Anchors

• As required for the associated Reinforced Concrete, Masonry or Steel Frame scope of work.

Fire-Resistant Penetrations and Joints – IBC Sections 1705.16, 1705.16.1, 1705.16.2

- Certified by Firestop Manufacturer, or
- Current ICC Spray-Applied Fire Proofing Certificate, or
- Engineer Intern with one year related experience, or
- Registered professional engineer or architect.

Special Cases -- IBC Section 1705.1

• Approval on a case-by-case basis.

An acceptance review of individual special inspectors will be conducted and the submitting agency informed of the results. Special inspectors will be placed on the CPD-DS approved list for the particular special inspection items for which they are qualified. All new personnel to an agency must be evaluated, approved and listed by the CPD-DS before being assigned to any project.

CHAPTER 6 PRECONSTRUCTION MEETING

Prior to the issuance of a permit, a preconstruction meeting shall be held for the purpose of reviewing the special inspection requirements for that project. Those required to attend the meeting are the owner or an individual acting as an agent for the owner, the general contractor and the special inspector of record. For smoke control projects, the preconstruction meeting may be deferred to prior to the issuance of the mechanical permit upon request.

Preconstruction meetings can be scheduled only after CPD-DS has received the required special inspections information detailed in Chapter 3. It shall be the permit applicant's responsibility to schedule the meeting with the Supervisor of Special Inspections, and notify the appropriate parties. The preconstruction meeting will be held at the CPD-DS office located at 414 E. 12th Street, 14th Floor.

CPD-DS will develop a Special Inspections Project Manual, which will identify the specific special inspection requirements for that project and include the applicable directives from the Special Inspections Manual. The project manual will form the basis for the preconstruction meeting and become part of the construction documents with the issuance of permits. The information in the Special Inspections Project Manual will be reviewed to verify that all parties have a clear understanding of the special inspection provisions and the individual duties and responsibilities of each party. The representatives of the project owner, general contractor and special inspector of record will sign the log-in-sheet documenting their presence at the meeting. A copy of the Special Inspections Project Manual will be given to all present. The general contractor's copy shall be available on the job site during construction.

If necessary, modifications to the project manual may be made with the consent and approval of CPD-DS. The design professional of record shall notify CPD-DS Special Inspection Branch of all proposed changes to the scope of the manual. Upon approval, the modifications will be incorporated into the approved Special Inspections Project Manual. Updated copies will be provided to the applicant and to each affected Special Inspection Agency. It is the applicant's responsibility to ensure that the approved modifications are available on the job site.

CHAPTER 7 PROCEDURAL REQUIREMENTS

- 1. The general contractor shall ensure that copies of the City reviewed plans and specifications, and the EOR-reviewed shop drawings, are provided to the special inspector prior to the start of the affected work.
- 2. It is the special inspector's responsibility to review the City reviewed plans thoroughly and sufficiently in advance of construction to establish that adequate information is available to conduct the required inspections and tests. All errors and/or omissions in the reviewed plans that create any form of uncertainty or ambiguity shall be resolved through the Registered Design Professional of Record.
- 3. The contractor is responsible for notifying the special inspections agency when the work is ready for inspection. A minimum of 24-hours notice shall be provided so that the special inspector has time to inspect the work prior to concealment. The contractor shall provide access to and means for safe and proper inspection of the work. It is the contractor's responsibility to verify that all work requiring special inspection is inspected and/or tested prior to concealment.
- 4. A CPD-DS approved special inspector shall perform inspections and/or tests of the work for conformance with the City reviewed plans and specifications, EOR-reviewed shop drawings, and applicable provisions of the International Building Code. (See Appendix C for plan stamps that will appear on City reviewed plans.)
- 5. If the City reviewed construction documents are not available at the site, the special inspector may proceed with an inspection. It shall be documented on the applicable reports that the CPD-DS reviewed plans were not available for the inspection. It is the special inspector's responsibility to verify and report, at the first opportunity, whether the work inspected was in accordance with the CPD-DS reviewed construction documents. If the CPD-DS reviewed plans are not available at two consecutive inspection visits, the special inspector shall contact CPD-DS Special Inspection branch by phone immediately. CPD-DS staff will investigate.
- 6. After each inspection, the special inspector shall give the contractor an inspection report on the Daily Report form located in Appendix B. The form shall be completed in detail and shall be signed by an approved CPD-DS special inspector. Any non-conforming items shall be brought to the immediate attention of the general contractor and noted on the Daily Report form.
- 7. The Daily Report shall indicate 'Discrepancies' if the item remains unresolved by the Design Professional of Record, or shall indicate 'Changes' if the resolution by the Design Professional of Record has been submitted to the City.
- 8. The general contractor shall create a file (3- ring binder) for the special inspector's daily and biweekly reports and the SI Project Manual. This file shall be located in a conspicuous place in the project trailer/office to allow review by CPD-DS inspectors. The file shall be kept up-to-date.

- 9. The special inspector of record shall submit a Biweekly Report to the CPD-DS Special Inspections Branch, the Registered Design Professional of Record, and the general contractor until all work requiring special inspections is complete. A report is required for each biweekly period in which special inspection activity occurs, and shall be submitted on the CPD-DS Special Inspections Report form located in Appendix B. The Biweekly Report shall include the following:
 - o A brief summary of the work performed during the reporting time frame.
 - A copy of the daily reports documenting special inspections performed during the reporting time frame.
 - Discrepancies which were resolved or corrected. Discrepancies resolved by the Registered Design Professional of Record shall do so with a signed and sealed document.
 - A list of nonconforming items requiring resolution which includes changes and/or discrepancies with the CPD-DS reviewed drawings or specifications that were observed during the reporting period.
 - All applicable test results.
- 10. When the work requiring special inspections is completed and all nonconforming items have been resolved, the general contractor shall notify the Special Inspection Agency, and the Special Inspection Agency shall submit, a Final Special Inspections Report to CPD-DS, the Design Professional of Record, and the general contractor. This form is located in Appendix B of this manual. It is the responsibility of the Special Inspection Agency to verify that all construction under the assigned responsibility of the Agency has been inspected and approved prior to completing the final report. A Certificate of Occupancy will not be issued until the final report has been reviewed and approved by the CPD-DS and all Certificates of Compliance have been received.

CHAPTER 8 CONCRETE CONSTRUCTION PRESTRESSED, POST-TENSION, SELF-CONSOLIDATING AND SHOTCRETE (PLACEMENT, TESTING, BOLTS, REINFORCING STEEL)

Placement of Reinforced Concrete - IBC Section 1705.3, Chapter 19, and ACI 318-11 1.3.

A special inspector shall be on-site during the placement of reinforced concrete. The inspector shall provide a continuous inspection of the conveying, depositing, and consolidation of concrete, for conformance with the City reviewed plans and specifications and Chapter 19 of the IBC. The special inspector shall observe placement procedures for evidence of segregation, possible cold joints, displacement of reinforcing or forms, and proper support of embedded items, anchor bolts, etc. When the point of deposit of concrete cannot be observed by the individual monitoring, the discharge from trucks or the batch plant additional personnel shall be provided.

Concrete delivery tickets shall be checked to verify that the class of concrete ordered is being delivered and conforms to project plans and specifications and/or code requirements.

Testing of Reinforced Concrete - IBC Table 1705.3 (Item 6), Chapter 19, and 5.6 of the ACI

For each class of concrete placed each day, the special inspector shall obtain a sample for strength tests at the frequency stated in Section 5.6 and 5.8 of the ACI or City reviewed specifications. A strength test shall be the average of the strengths of two cylinders, made from the same sample of concrete, laboratory cured, and tested at 28 days. Additional cylinders shall be cast if any changes in the mix consistency are noted or when directed by the Registered Design Professional of Record.

Concrete test cylinders shall be cast, stored and tested in accordance with Chapter 19 of the IBC. If the strength test of cylinders falls below the specified value of f c by more than 500 psi, the special inspections agency shall notify the general contractor immediately so remedial action can be taken in accordance with Section 5.6.5 of the ACI.

Slump, air-content, and temperature tests shall be conducted when strength specimens are made or at the option of the inspector as often as necessary for control checks. All other concrete testing shall be conducted as stated in the project specification and per ASTM Standards.

Placement of Reinforcing Steel - IBC Table 1705.3 (Item 1); Chapter 19, and Sections 3.5, 7.1-7.7 of the ACI

Prior to the closing of forms or the delivery of concrete to the job site, the special inspector shall verify that the reinforcing steel is in conformance with the City reviewed plans and specifications, shop drawings reviewed by Engineer of Record, and Chapter 19 of the IBC. The special inspector shall confirm the reinforcing steel is of correct size and grade and ensure that the proper spacing, clearances, splice lengths and embedded items have been provided. All reinforcing steel shall be in place prior to the placement of concrete and be secured against displacement

Prestressed Concrete [Prestressing and Post Tension Tendons] - IBC Table 1705.3 (Item 9)

Prior to the placement of concrete, the special inspector shall verify that the prestressing tendon has the proper chair heights, tendon profiles, clearances, and steel anchorage as detailed in the City reviewed plans and specifications and the EOR-reviewed shop drawings.

The special inspector shall be present during the entire stressing and grouting operation. The tendons shall be stressed, with a calibrated stressing ram, at the specified strength, using the procedure approved by the Engineer of Record. The special inspector shall calibrate or review current calibration data on the proposed stressing equipment and verify that the concrete meets the minimum required compressive strength prior to post-tensioning.

Post-Tension Slab-on-Ground Foundations - IBC Table 1705.3, Section 1808.6.2

Slab-on-ground, mat or raft foundations on expansive soils shall be in accordance with WRI/CRSI Design of Slab-on-Ground Foundations or PTI Design and Construction of Post-Tensioned Slabs-On-Ground.

Bolts Installed in Concrete - IBC Table 1705.3 (Item 3) and Section 1908.5

An inspection is required prior to and during the placement of concrete around bolts. The special inspector shall verify that the bolt size, location and embedment length are in conformance with the City reviewed plans and specifications.

Post-Installed Anchors – IBC 1705.1.1

The special inspector shall verify the anchor installation in accordance with the city-stamped plans, and in accordance with the manufacturer's instructions and the product's evaluation report or listing.

Shotcrete - IBC Section 1910

The special inspector shall verify compliance to IBC 1910, and to the design documents.

Self-Consolidating Concrete - IBC Section 1705.1.1

The use of this product requires advance approval by the Design Professional of Record and CPD-DS. The Design Professional of Record shall submit written procedures to be used by the special inspector to verify compliance.

CHAPTER 9 PRECAST CONCRETE (FABRICATION AND ERECTION OF PRECAST)

Inspection of Fabricator - IBC 1704.2.5

1. Approved Precast Fabricator

Inspection of fabrication is not required for work performed in the shop of an approved fabricator (see Chapter 3 of this Manual). The following programs are currently approved by the CPD-DS to provide certification of fabricators:

- International Accreditation Service, Inc. (IAS)
- Precast/Prestressed Concrete Institute (PCI)
- Architectural Precast Association (APA)

2. Precast Fabricator Not Approved

When precast concrete is fabricated in a plant which is not certified by a nationally recognized organization, in-plant inspection is required as follows:

- The special inspector shall provide in-plant inspections during the fabrication of precast for compliance with the City reviewed plans and specifications and EOR-reviewed shop drawings. Each precast member shall be inspected for proper form dimension, reinforcing steel, prestressing tendons, embeds and lifting devices prior to concrete placement. It is the fabricator's responsibility to notify the special inspections agency prior to concrete placement and to have the required plans on-site for the inspection.
- The special inspector shall monitor the placement of concrete during casting and obtain samples for strength tests as required by project specifications. Concrete compressive strength results and stressing data shall be recorded for each member and submitted with the Special Inspections Report.
- The inspection approving the fabrication shall be received by CPD-DS SI branch prior to erection of the product at the job site.

Erection of Precast Concrete or Tilt-Up-Panel - IBC Table 1705.3 (Item 10)

Erected concrete members shall be inspected for compliance with the City reviewed plans and the erection drawings. The special inspector shall verify proper member location and that no cracking, chipping or marring has occurred during the shipment and erection. Any modifications or damage to the members shall be reported as a discrepancy and brought to the attention of the precast design Engineer of Record and project Registered Design Professional of record.

Connections shall be inspected for conformance with the City reviewed plans and the erection drawings. Connections, which deviate from the plans due to field modifications or misalignment, shall be reported as a discrepancy and addressed by the precast design Engineer of Record. and the Registered Design Professional of Record

CHAPTER 10 SOILS, EXCAVATION, FILLING, DEEP FOUNDATIONS, RETAINING WALLS AND DETENTION BASIN

Verification of Soils - IBC Section 1705.6 and Chapter 18

The subgrade supporting the footings of buildings or structures shall be inspected prior to the placement of reinforced concrete. The special inspector shall observe and test all footing excavations to verify conformance with City reviewed plans and geotechnical engineer's report. The foundation shall be of proper size and depth and free of any loose, deleterious or foreign material.

Where unsuitable bearing conditions are observed, the Geotechnical Engineer of Record and project Engineer of Record shall be notified immediately so that remedial procedures can be established.

Excavation and Filling - IBC Sections 1705.6, 1804, 3304 and Appendix J

When a project contains excavations or fills whose slope limits exceed Chapter 33/Appendix J, and/or structural fill greater than one foot under the footprint of a future structure, a special inspector shall monitor the operations for conformance with the City reviewed plans, geotechnical engineer's report and Appendix J.

During the placement of engineered structural fill, the special inspector shall provide sufficient periodic observation to verify that the preparation of the natural ground is being performed in accordance with the geotechnical engineer's recommendations, and shall provide continuous observation during placement of compacted fill under future buildings in accordance with Table 1705.6 and is being performed in accordance with the geotechnical engineer's recommendations. The special inspector shall monitor the placement of each lift of engineered structural fill supporting the foundation of any structure.

The special inspector shall monitor and test all fill to determine whether the type of material, moisture content and degree of compaction are within the recommended limits set forth by the Geotechnical Engineer of Record or J107.5. Where fill exceeding 5 feet in depth is to be placed on an existing slope in excess of 5:1, the special inspector shall verify that the existing slope is benched in accordance with Section J107.3.

The special inspector shall verify that final contours are in substantial conformance with the City reviewed plans.

Deep Foundations - IBC Sections & Tables 1705.7, 1705.8, 1808 and 18010.

A special inspector shall be on-site during the construction of all piers and piles. Work shall be in accordance with the City reviewed drawings and as specified by the geotechnical engineer of record. Specialty piles shall have additional inspections as determined by the registered design professional in responsible charge.

Earth Retaining Structures - IBC Sections 1610, 1705.1.1, 1803, 1807.2, 2304.11.7, and Appendix Sections J106, and J107

The special inspector shall perform the necessary inspections and tests to ensure the system is installed per the City reviewed plans and specifications.

Earth retaining structures (modular, stacked stone, gabion etc.) shall be installed in accordance with plans and specifications prepared by a registered design professional in accordance with the geotechnical exploration and results of the global stability analysis. For modular retaining walls, each lift of backfill and each grid shall be inspected. For concrete or shotcrete retaining wall systems, see Chapter 8 of this manual.

After a temporary earth-retaining structure is installed, a biweekly inspection shall be made throughout the life of the project to verify the system is performing as intended and no changes have occurred.

Detention Basin - IBC Section 1705.1.1

A storm water detention basin shall be inspected for conformance with the City reviewed plans. The special inspector shall survey the basin to verify the basin location and the proper finish grade elevations. The special inspector shall also verify that the outlet (size, type material, and elevation), orifice plates, pipe screens or erosion control systems are installed per the reviewed plans.

CHAPTER 11 STEEL CONSTRUCTION

(WELDING, HIGH STRENGTH BOLTING, STEEL FRAME, INSPECTION OF FABRICATOR, SPRAYED FIRE RESISTANT MATERIAL AND MASTIC AND INTUMESCENT FIRE RESISTIVE COATINGS

Field Welding of Structural Steel - IBC Sections 1705.2, 2204.1, AISC 360-10 16N

Special inspections are required for the welding of structural members or connections for compliance with the City reviewed plans, shop drawings reviewed by the design professional of record, specifications and Chapter 22 of the IBC. The special inspector shall inspect the equipment, material and technique being employed and verify that the welding is performed by certified welders qualified in the procedure being used. A visual inspection of the completed work shall be made to ensure proper type, size, length and quality of the welds.

The special inspector shall provide visual and NDT inspections per AISC 360-10 and per Engineer of Record recommendations.

For periodic inspection, the special inspector shall check qualifications of welders at the start of work and then make inspections of the work in progress and a visual final inspection of all welds for compliance.

Field Bolting of Structural Steel - IBC Sections 1705.2, 2204.2, and AISC 360 16N5.6

Structural steel joints using A325 high-strength bolts, A490 heat-treated high-strength bolts or equivalent fasteners shall have special inspections. The special inspector shall monitor the prequalification, installation and tightening of bolted connections in accordance with the City reviewed plans, shop drawings reviewed by the Design Professional of Record, and Table AISC 360 16N5.6 1-3.

When bolted connections require full pretension, the special inspector shall prequalify the pretensioning method and verify that the specified procedure was used to achieve the design tension. A tension calibrator shall be provided, at the job site, to verify fastener assemblies, train installation crews, and calibrate wrenches (if calibrated wrench method is used). CPD-DS recommends a meeting between the special inspector and the steel erector to establish the procedures to be used is required prior to any erection especially when full pretension is specified.

Bolts in connections identified as not being slip critical nor subject to direct tension need not be inspected for bolt tension. The special inspector does not need to be present during the entire installation and tightening operation provided that the bolts are installed in properly aligned holes and tightened to the snug-tight condition. Bolts required to be tightened only to a snug-tight condition shall be clearly identified on the reviewed drawings.

Steel Frame Inspection - IBC Section 1705.2, Table 1705.2.2, Chapter 22 and AISC 360 16N5.7

The special inspector shall perform an inspection of the structural steel frame to verify compliance with the details shown on the City reviewed plans and the shop drawings reviewed by the Design Professional of Record, such as bracing, stiffening, member size and location, and proper application of joint details at each connection.

<u>Inspection of Steel Fabricator - IBC Section 1704.2.5 and Chapter 22.</u>

1. Approved Steel Fabricator

Inspection of fabrication is not required for work performed in the shop of an approved fabricator (see Chapter 3 of this Manual). The following organizations are approved by the CPD-DS to certify fabricators:

- American Institute of Steel Construction (AISC),
- International Accreditation Service, Inc. (IAS)
- Canadian Welding Bureau (CWB),
- Steel Joist Institute (SJI).

2. Steel Fabricator Not Approved

Structural steel, bar joists and metal buildings fabricated on the premises of a facility/plant not certified by a nationally recognized organization shall have in-plant special inspections as follows:

- The special inspector shall inspect the work, during fabrication, for compliance with the City reviewed plans and specifications, shop drawings reviewed by the Design Professional of Record, and Chapter 22 of the IBC.
- Each member shall be inspected and approved by the special inspector prior to shipment.
- It is the responsibility of the fabricator to notify the special inspections agency and have the reviewed plans on-site for the inspection.
- The general contractor shall coordinate this inspection.
- Daily reports indicating the members inspected shall be submitted to the CPD-DS with the Biweekly Special Inspections Report.

The inspection approving the fabrication shall be received by CPD-DS SI branch prior to erection of the product at the job site.

Sprayed Fire Resistant Materials - IBC Section 1705.13, 403.2.4

When sprayed fire resistant materials are provided for the fire-resistive protection of structural steel members, special inspections are required for conformance to the manufacturer's instructions.

Surface conditions shall be inspected prior to the application per 1705.13.2. Minimum substrate ambient temperature shall be verified before and after application per 1705.13.3.

The special inspector shall inspect the fireproofing in accordance with IBC 1705.13, and the City reviewed plans and specifications. The thickness and density of the fireproofing shall not be less than the requirements of the listing of the fire-resistive assembly. The cohesive/adhesive bond strength shall be tested to the following minimums [IBC 403.2.4]:

- High-rise buildings with building height up to 420 feet 430 pounds per square foot
- High-rise buildings with building height > 420 feet 1000 pounds per square foot
- All other buildings

150 pounds per square foot

Just prior to concealment, a complete visual inspection of the fireproofed members shall be conducted. The special inspector shall verify that the sprayed fire resistant material has no voids, spalls, and delamination or that no material has been scraped or knocked off during construction.

Mastic and Intumescent Fire Resistive Coatings - IBC Section 1705.14

When mastic and intumescent fire resistive coatings are provided for fire-resistive protection of structural steel members, special inspections are required for conformance to the manufacturer's instructions and city reviewed plans and specifications. Inspection shall include examination of the substrates for compliance with the coating application requirements, and conditions affecting coating performance, in accordance with the product listing. The coating thickness shall be verified in accordance with the product listing.

CHAPTER 12 MASONRY CONSTRUCTION

The special inspector shall provide the inspection and testing of masonry construction for conformance with the City reviewed plans and specifications and Section 1704.5 and 1708.1 of the IBC.

The special inspector shall inspect the handling, storage, preparation and placement of all elements involved in masonry construction. During cold and hot weather construction, the special inspector shall verify that the provisions of IBC Section 2104.3 and Section 2104.4 respectively are being observed.

Mortar and grout shall be properly mixed using the specified material proportions per the mix design. The method of measuring shall be such that the material proportions are controlled.

For empirically designed masonry, glass unit masonry, and masonry veneer in essential facilities, or engineered masonry in Risk Category I, II, or III (nonessential facilities) the minimum special inspection program shall comply with ACI 530 Table 1.19.2. For interior non-bearing walls that are not fire resistance rated, and are more than 10 feet in height the Engineer of Record may request inspection per Table 1.19.1.

For engineered masonry in Risk Category IV (essential facilities) the minimum special inspection program shall comply with ACI 530 Table 1.19.3

CHAPTER 13 SEISMIC RESISTANCE AND STRUCTURAL OBSERVATIONS

The special inspections for seismic resistance are in addition to those required in Section 1704. This special inspection is only required for structures in Seismic Design Categories C, D, E or F and only when required in Sections 1704 and 1705.11. The Engineer of Record shall identify the seismic-force-resisting systems and other designated seismic systems in the structure.

- Steel. Special inspection of welding in accordance with Section 1705.2 and AISC 341 is required for steel.
- o Structural wood. Special inspections in accordance with Section 1705.11.2 to ensure continuity of load path within the seismic-force-resisting system.
 - Exception: Fastening of wood sheathing used for wood shear walls, shear panels and diaphragms where the fastener spacing is more than 4" on center.
- Cold-formed steel framing. Special inspections in accordance with Section 1705.11.3 to ensure continuity of load path within the seismic-force-resisting system.
- Storage racks and accesses floors. Special inspections in accordance with Section 1705.11.7 required during the anchorage of access floors and storage racks 8' or greater in height in Seismic Design Categories D, E or F.
- Architectural components. Special inspection in accordance with Section 1705.11.5 of architectural components in Seismic Design Categories D, E or F.
- Mechanical and electrical components. Special inspection in accordance with Section 1705.11.6 for components that must function in post earthquake conditions such as emergency electrical systems or for anchorage of mechanical equipment, piping, and ducting using or caring flammable or hazardous material.
- o Designated seismic system verifications. Special inspection shall be in accordance with Section 1705.11.4.
- Seismic isolation system. Periodic special inspections shall be in accordance with Section 1705.11.8

Structural Testing for Seismic Resistance; IBC Section 1705.12

- Masonry. Special Inspection of the materials and assemblies prior to construction shall comply with AISC 530.
- Testing for seismic resistance. Special inspection in accordance with Section 1705.12.2 for testing of seismic resistance may include reinforcing and prestressing steel, structural steel, mechanical and electrical equipment and seismically isolated structures.

CHAPTER 14 EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)

Special inspection for EIFS systems shall be based on manufacturer's installation instructions. Critical areas necessary for adequate EIFS performance are proper installation of waterproofing membrane and installation of flashings at windows, doors, joints, eaves, corners and penetrations [IBC Section 1705.15].

CHAPTER 15 SMOKE CONTROL SYSTEMS

Special Inspection of smoke-control systems - IBC Section 1704.14, Section 909.3

Smoke control systems installed for the following purposes are subject to the requirements of IBC Section 909 and require special inspection:

- Covered mall building IBC 402.7.2
- Atrium IBC 404.5
- Underground building IBC 405.5
- Group I-3 windowless building IBC 408.9
- Smoke proof enclosure IBC 403.5.4, 405.7.2, 1022.10, 909.20
- Stage IBC 410.3.7.2
- Smoke-protected assembly seating IBC 1028.6.2.1
- Elevator shaft pressurization IBC 713.14.1, 909.21

The special inspector shall verify compliance to the appropriate sections noted above, IBC 909, and to the design documents.

- The test procedures shall be approved by the Engineer of Record for the smoke control system, and then submitted to CPD-DS Special Inspection Branch for approval.
- Upon approval of the test procedures and the rational analysis for the smoke control system, a smoke control preconstruction meeting will be conducted to discuss the approved detailed procedures. No mechanical permit will be issued until this has occurred.

The test scope shall be in accordance with IBC Section 1705.17 as follows:

- During erection of ductwork and prior to concealment for the purpose of leakage testing and recording of device location.
- Prior to occupancy and after sufficient completion for the purposes of pressure difference testing, flow measurements and detection and control verification.

The final performance test of the smoke control system shall be coordinated with the final occupancy inspection and also witnessed by the CPD-DS Special Inspection Staff.

CHAPTER 16 WOOD CONSTRUCTION

Fabricated Wood Structural Elements and Assemblies; IBC 1705.5

Fabricated wood structural elements and assemblies of wood construction, such as wood trusses, shall be by an approved fabricator, or shall have special inspection monitoring.

All fabrication and installation of high-load diaphragms using values from IBC Table 2306.3.2 shall have special inspection monitoring in accordance with IBC 1705.5.1

CHAPTER 17 FIRE-RESISTANT PENETRATIONS AND JOINTS

Fire-resistant penetrations and joints—1705.16

In high-rise buildings or buildings assigned to Risk Category III or IV special inspections are required for through-penetration firestop systems, membrane penetration firestop systems, fire-resistant joint systems, and perimeter fire barrier systems. The inspections shall be per ASTM E2174 and ASTM E2393.

APPENDIX A

STANDARD DEFINITIONS AND ACRONYMS

DEFINITIONS

Certificate of Occupancy. A document issued by the Building Official prior to a building or structure being used or occupied.

High-rise Building. A building with an occupied floor located more than 75 feet above the lowest level of fire department access.

Residential Building. A building, which accommodates residential occupancies, classified as R-3, which is used for human habitation for living, sleeping, cooking or any combination thereof.

Reviewed Plans. Plans submitted to and reviewed by the CPD-DS Plans Review Division in conjunction with the issuance of a building permit and stamped by CPD-DS "Reviewed for Code Compliance".

Special Inspections Agency. Agency retained by the owner and approved by CPD-DS to perform special inspections as required by IBC Section 1704.

Special Inspections Manual. The manual that outlines the CPD-DS Special Inspections Program.

Special Inspections Project Manual. A manual developed by the CPD-DS that identifies the special inspections requirements for a specific project.

Special Inspector. A qualified individual who is employed by a Special Inspections Agency and approved by CPD-DS to perform the inspection and/or testing of work requiring special inspections.

Special Inspector of Record. The professional engineer or architect registered in the State of Missouri, who is responsible for overseeing and reporting the special inspections on a specific project.

ACRONYMS

AISC American Institute of Steel Construction

AOR Architect of record

APA Architectural Precast Association

ASTM American Society for Testing and Materials

CPD-DS City Planning & Development-Development Services

CWB Canadian Welding Bureau

EIFS Exterior Insulation & Finish System

EOR Engineer of record

IAS International Accreditation Service, Inc.

ICC International Code Council.

ICC-ES International Code Council Evaluation Service

KCBRC Kansas City Missouri Building and Rehabilitation Code

PCI Precast/Prestressed Concrete Institute

SI Special Inspections

SJI Steel Joist Institute.

APPENDIX B SPECIAL INSPECTIONS FORMS INDEX

•	Special Inspector Request For Approval	age 34
•	Special Inspector Daily ReportPa	age 35
•	Biweekly Special Inspection ReportPa	age 36
•	Final Special Inspection Report	age 37
•	Required Special Inspections	age 38
•	Subcontracted special inspection agency request for approvalP	age 39

KCMO SPECIAL INSPECTOR REQUEST FOR APPROVAL

Special Inspector Name:		
Last	First	Middle
Special Inspector Signature:	(As it will appear on reports)	
	ct who is responsible for supervising the clude a resume showing the special instifications.	
Indicate the items the individual is q	qualified to inspect (See Chapter 5) for	the minimum requirements):
[] Testing of Concrete [] Placement of Concrete [] Placement of Shotcrete [] Placement of Rebar [] Prestressing Concrete [] Excavation and Filling [] Piles and orPiers [] Verification of Soils [] Earth Retaining Structure	[] Detention Basin [] High Strength Bolting [] Structural Welding [] Steel Frame Inspection [] Structural Masonry [] Erection of Precast [] Precast [] Sprayed Fireproofing	[] EIFS Inspection [] Smoke Control [] Seismic Resistance [] Firestop Inspection
Indicate the current certifications an	d/or professional licenses retained by the	ne individual:
[] Current ICC Soils Special Inspector wing year related experience [] ACI Concrete Field Testing Technician and I acid Concrete Construction SI Certificated and I acid Concrete and I acid Concrete and I acid I a	[] CWB Certified In Level 1 In Level 1 In Level 1 In Interport [] NDT Level 1 Interport [] Professional I Interport [] Professional I Interport [] Registered Anterport [] Registered Google [] Engineer Interport [] Geologist-in-Interport [] Firestop Certification [] Firestop Certif	Land Surveyor Engineer rehitect eologist rn Training ification
	the individual is qualified to inspect ar	nd/or test the items indicated above.
Special Inspections Agency:Signed:	Data	
bighed		
Submit To: Heath Perkins City Planning & Development - Development Serv Special Inspection Branch	ices Seal:	

414 E. 12th Street, 14th Floor Kansas City, Missouri 64106

KCMO SPECIAL INSPECTOR DAILY REPORT

Date:
Control #:
STRUCTURAL STEEL [] High Strength Bolting [] Welding of Structural Steel [] Metal Deck Welding [] Shear Stud Welding [] Welding of Reinforcing Steel [] Steel Frame Inspection SPRAYED FIRE RESISTANT MATERIALS OR MASTIC AND INTUMESCENT FIRE RESISTIVE COATINGS [] Placement Inspection [] Bond Strength [] Density Tests [] Substrate Temperature [] Thickness Tests PRECAST CONCRETE [] Inspection of Erected Panels [] Welding of Panel Connections INSPECTION OF FABRICATORS [] Metal Building [] Structural Steel [] Wood Const. [] Precast Concrete ans? [] Yes [] No [] Yes [] No lived [] Yes [] No lived [] Yes [] No lived [] Yes [] No
·

35

KCMO BIWEEKLY SPECIAL INSPECTIONS REPORT

Project Address:	Control #:	
Project Name:		
Company Name:		
This report covers work done between	and	
This is to certify that I, or a qualified individutested the following items in accordance with Code: (Check appropriate items)	ual working under my direction, inspected and/or n Section 1704 of the 2012 International Building	
[] Placement of Reinforced Concrete	[] None No Inquestions Made	
[] Placement of Shotcrete	[] None - No Inspections Made	
[] Testing of Reinforced Concrete	[] Erection of Precast Concrete	
[] Placement of Reinforcing Steel	[] Steel Frame Inspection	
[] Placement of Prestressing Steel	[] High Strength Bolting	
[] Bolts Installed in Concrete	[] Structural Welding	
[] Post-Installed Anchors	[] Sprayed Fire Resistant Materials or Mastic and Intumescent Fire Resistive Coating	
[] Verification of Soils	[] Structural Masonry	
[] Excavation and Filling	[] Wood Construction	
[] Deep Foundations	[] Seismic Resistance	
[] Earth-Retaining Structure	[] Firestop	
[] Detention Basin		
[] EIFS	INSPECTION OF FABRICATORS [] Metal Building [] Structural Steel	
[] Smoke Control	[] Wood Const. [] Precast Concrete	
[] Shotcrete	Other:	
Except where noted in the attached report, the compliance with the City reviewed plans, specific Kansas City, Missouri, Building & Rehabilitaresolutions are attached.		
Signed:	Date:	
Submit To: Heath Perkins City Planning & Development Development Services	SEAL	

Development Services
Special Inspections Branch
414 E. 12th Street, 14th Floor
Kansas City, Missouri 64106
cc: Engineer or Architect of Record and the General Contractor

KCMO FINAL SPECIAL INSPECTIONS FORM

[] FINAL SPECIAL INSPECTIONS RE	
Project Address:	Control #:
Project Name:	
Company Name:	
Special Inspector of Record:	
This is to certify that I or qualified individuatested the following items in accordance wit Code:	als working under my direction inspected and/or h Section 1705 of the 2012 International Building
[] Placement of Reinforced Concrete	[] EIFS Insulation/Finish System
[] Placement of Shotcrete	[] Smoke Control
[] Testing of Reinforced Concrete	[] Erection of Precast Concrete
	[] Steel Frame Inspection
[] Placement of Reinforcing Steel	[] High Strength Bolting
[] Prestressing Concrete	[] Structural Welding
[] Post-Tension Slab	[] Sprayed Fire Resistant Materials or Mastic and Intumescent Fire Resistive
[] Bolts installed in Concrete	Coating [1] Structural Masonery
[] Post-Installed Anchors	[] Structural Masonry
[] Verification of Soils	[] Wood Construction
[] Excavation and Filling	[] Seismic Resistance
[] Deep Foundations	[] Firestop
[] Earth Retaining Structure	INSPECTION OF FABRICATORS
[] Detention Basin	[] Metal Building [] Structural Steel [] Wood Const. [] Precast Concrete
[] Other:	
	ked above is complete and was inspected by this as found to be in substantial compliance with the applicable provisions of the Kansas City, Date:
Submit to: Heath Perkins City Planning & Development	
Development Services – Special Inspections B 414 E. 12th Street, 14th Floor - Kansas City,	

KCMO REQUIRED SPECIAL INSPECTIONS

By Registered Design Professional of Record

Project Name: Proj	ject Address:
Per IBC Section 1705 of the 2012 Internation Special Inspections Manual, I recommend the Inspections.	nal Building Code and Chapter Two of the nat the following items be considered for Special
[] Placement of Reinforced Concrete	[] Erection of Precast Concrete[] Structural Welding
[] Placement of Shotcrete	-
[] Testing of Reinforced Concrete	[] High Strength Bolting
[] Placement Reinforcing Steel	[] Steel Frame Inspection
[] Prestressing Concrete	[] Sprayed Fire Resistant Materials or Mastic and Intumescent Fire Resistive
[] Bolts installed in Concrete	Mastic and Intumescent Fire Resistive Coating
[] Post Installed Anchors	[] Structural Masonry
[] Verification of Soils	[] EIFS Insulation/Finish System
[] Excavation and Filling	[] Seismic Resistance
[] Deep Foundations	[] Shotcrete
[] Earth Retaining Structure	[] Firestopping [] Smoke Control System
[] Detention Basin	INSPECTION OF FABRICATORS
[] Inspection of Precast Fabricator	[] Metal Building [] Structural Steel [] Wood Const. [] Precast Concrete
Other	
Registered Design Professional of Records Submit to: Heath Perkins City Planning & Development Development Services	:Date
Special Inspections Branch 414 E. 12th Street, 14th Floor - Ka	ansas City, Missouri 64106

KCMO SUBCONTRACTED SPECIAL INSPECTION AGENCY REQUEST FOR APPROVAL

Project #:	_
Project Name:	_
Special Inspection Agency Name:	
I hereby certify that I am accepting responsibility to for City Missouri's Special Inspections manual as a subconfor this project.	
Special Inspections Agency:	
Signed:	Date:
Submit To: Heath Perkins	
City Planning & Development - Development Services	
Special Inspection Branch	
414 E 12 th ST 14 th Floor Kansas City, Missouri 64106	

SEAL

APPENDIX C CPD-DS Plan Stamps

CITY PLANNING & DEVELOPMENT – DEVELOPMENT SERVICES PLAN STAMPS

BUILDING PERMIT STAMPS:

	CHANGES REVIEWED FOR CODE COMPLIANCE	
	To Building Permit #	
REVIEWED FOR CODE COMPLIANCE		
City Planning & Development Development Services City of Kansas City, Missouri	SPECIAL INSPECTION REQUIRED AS PREVIOUSLY SPECIFIED	
	City Planning & Development Davolopment Services City of Kansas City, Missouri	
Greg∕Franzen, P.E. M.C.P. Building Official	Building Official	
Date:	Date:	
By:		
REVIEWED FOR CODE COMPLIANCE City Planning and		
'CPB'):		
COMPLIANCE		
Development Development Services	CHANGES REVIEWED FOR CODE COMPLIANCE	
Land Development Division Land Disturbance Private Grading Public Grading Street Design	City Planning and Development Development Services	
	Land Development Division	
	To Permit#	
Sanitary Sewers	A SERVICE SERVICE STORM SERVICE STORMS OF THE SERVICE STORMS OF TH	
Storm Drainage	Date:	
BYREVIEWER	By: Whenever second	
DATE:		
and the state of t		
DEPARTMENT OF CITY PLANNING & DEVELOPEMENT KANSAS CITY, MISSOURI		